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Practitioner's Docket No. 49663 (71758)

#5 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Heather J. Belmont, et al.
Application No.: 10/024,648
Filed: December 19, 2001
For: TRANSGENIC ANIMALS COMPRISING A HUMANIZED IMMUNE
SYSTEM

CERTIFICATE OF EXPRESS MAILING

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(Date of Deposit:
May 14, 2002)

By:


Donna R. Davis

U.S. Patent and Trademark Office
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Customer Window, BOX SEQUENCE,
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Arlington, VA 22202

AMENDMENT

Sir:

Applicant is in receipt of the Notice to File Missing Parts of Non Provisional Application, mailed on February 14, 2002. The following Amendment is provided to comply with 37 C.F.R. 1.821-1.825 "SUBMISSION OF "SEQUENCE LISTING," COMPUTER READABLE COPY, AND/OR AMENDMENT PERTAINING THERETO FOR BIOTECHNOLOGY INVENTION CONTAINING NUCLEOTIDE AND/OR AMINO ACID SEQUENCE."

Please amend the above-identified application as follows.

IN THE SPECIFICATION:

On page 34, lines 22 - 24, please amend the following:

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(AMENDED) The pPUR vector is modified to include a unique *NotI* site by cutting with *EcoRI* and ligating in the oligonucleotide, AATTGCGGCCGC (SEQ ID NO:1).

On page 34, lines 27 - 28, please amend the following:

(AMENDED) TKf: ACTG GGATCCAAAT GAGTCTTCGG (SEQ ID NO: 2).

TKr: ACTG GCGGCCGC CAAACGACCC AACACCCGTG (SEQ ID NO:3).

On page 35, lines 1 -7, please amend the following:

(AMENDED) 5'-CC CACCTGGATC TCCCAGATTT GTGAGGAAGG TTGCTGGAGA GC-3' (MUSTCRA 89394-89437, C α exon 4) (SEQ ID NO: 4)

and for the region 5' to C α exon 1:

5'-GGAAA GCCCTGCTGG CTCCAAGATGGCTGAGGGAA AGGTCTACGG-3'
(MUSTCRA 81681-81725, 5' to C α exon 1) (SEQ ID NO: 5).

On page 35, lines 14 -16, please amend the following:

(AMENDED) PCa3'f: 5'-TAGTGGATCC CATGCAGAGAGAAACCGAAGTACGTG-3' (SEQ ID NO: 6).

PCa3'r : 5'-GCTACAGAGTGAAGTCATGGATCCTG-3' (SEQ ID NO: 7).

On page 35, lines 24 -26, please amend the following:

(AMENDED) PCa5'f: 5'-GGTCT GTGTTCCATA TGACGTCAGT ACG-3' (SEQ ID NO: 8)

PCa5'r: 5'-ATTACATATGGTCCTAACTTAGGTCAGAACTCAGATGC-3' (SEQ ID NO: 9)

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On page 38, line 23, please amend the following:

(AMENDED) C α exon2 probe: 5'-CG TTCCCTGTGA TGCCACGTTG ACTGAGAAAA
GCTTTG-3' (SEQ ID NO: 10).

On page 39, lines 17- 21, please amend the following:

(AMENDED) C β 1: 5'- TGAGAAAGTC CAAAAACTCG GGGTACCATT
CCACCATAGA-3' (AE000665 158041-158080) (SEQ ID NO: 11).

C β 2: 5'-GGAGT TAACCTGGTT GTGTCTCAGC AGTTTCTTTG GACTCCTGTG-3'
(AE000665 168427-168471) (SEQ ID NO: 12)

On page 39, lines 31- 32, please amend the following:

(AMENDED) B/N #1 (top): 5'-GAT CCG TTA ACG C-3' (SEQ ID NO: 13)
B/N #2 (bottom): 3'-GC AAT TGC GCC GG-5' (SEQ ID NO: 14)

On page 41, lines 17- 20, please amend the following:

(AMENDED) PRIMb5'f: 5'-GGATTCA AAGGTTACCT TATGTGGCCA C-3' (SEQ ID
NO: 15)

PRIMb5'r: 5'-GCCCC AAAGGCCTAC CCGCTTCC -3' (SEQ ID NO: 16)

On page 43, lines 22- 25, please amend the following:

(AMENDED)

FseI KspI AscI
pYAC4 Oligo-(1) 5'-AATTCggCCggCCCCgCggggCgCgCCg-3' (SEQ ID NO: 17)

pYAC4 Oligo-(2) 5' AATTCggCgCgCCCCgCggggCCggCCg-3'(SEQ ID NO: 18)

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On page 46, lines 20- 24, please amend the following:

(AMENDED) Screening oligo #1- 5'- GTCTCTACTT TACTAAAAAT AAAAAAATTA
GCCAGGTGTG GTGGTG-3' (SEQ ID NO: 19)

Screening oligo #2-5'- GTCACAGGGC TGAGGGAAGG AGACAAGAGC CTGGACAGCA-
3' (SEQ ID NO: 20)

On page 56, lines 3- 5, please amend the following:

(AMENDED) V β (near C term) VW510: ATCCTTTCTCTTGACCATGGCCATC (SEQ
ID NO: 21)

V α (near C term) VW512: GCTGGACCACAGCCGCAGCGTCATG (SEQ ID NO: 22)

On page 58, lines 19- 21, please amend the following:

(AMENDED) Recombinant bacteria containing the HLA-A2 gene are detected by colony
hybridization (Hanahan, D, and M. Meselson (1980) Gene 10:63-67), using the synthetic
oligonucleotide 5'-TGCTCTCCCCGTCCCAAT-3' (SEQ ID NO: 23) as a probe.

REMARKS

The sequence disclosure has been amended to comply with the requirements of 37 CFR
1.821 through 1.825. No new matter is being added by virtue of the compliance with the

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requirements as set forth in the " Notice to File Missing Parts of Non Provisional Application."

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned:

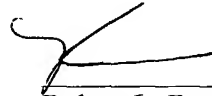
"Version with markings to show changes made."

It is believed the application is in condition for immediate allowance, which action is earnestly solicited.

Respectfully submitted,

DATE: May 14, 2002

Tel. No.: (617) 439-4444



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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the specification:

IN THE SPECIFICATION:

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